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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,724	09/18/2008	Ikuo Kawamoto	062602	8559
	7590 12/10/200 , HATTORI, DANIEL		EXAMINER	
1250 CONNECTICUT AVENUE, NW SUITE 700			BRIGGS, NATHANAEL R	
WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER	
			2871	
			NOTIFICATION DATE	DELIVERY MODE
			12/10/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/581,724	KAWAMOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	NATHANAEL R. BRIGGS	2871			
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPWHICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory points after the reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on <u>05.</u> 2a) ☐ This action is FINAL . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-19 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to restriction and/or are subject to by the Examination of the drawing(s) filed on 05 June 2006 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the correcti	awn from consideration. /or election requirement. ner. a)⊠ accepted or b)□ objected to e drawing(s) be held in abeyance. Sec	e 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/5/06; 11/15/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-19 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Umeda et al. (US 2003/0067572) in view of Okamoto et al. (US 6,791,640).
- 3. Regarding claim 1, Umeda discloses a method of producing an elliptically polarizing plate (see figure 14 (a), for instance) comprising the steps of: forming a first birefringent layer (46) on a surface of a transparent protective film (45c); laminating a polarizer (44) on a surface of the transparent protective film (45c); and forming a second birefringent layer (46a) by laminating a polymer film on a surface of the first birefringent layer(see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein: the first birefringent layer (46) and the polarizer (44) are arranged on opposite sides of the transparent protective film (45c); the step of forming a first birefringent layer comprises the steps of (see paragraph [0320]): applying an application liquid containing a liquid crystal material to a substrate (45c) subjected to alignment treatment; forming a first birefringent layer (46) on the substrate by treating the applied liquid crystal material at a temperature at which the liquid crystal material exhibits a liquid crystal phase; and transferring the first birefringent layer (46) formed on the substrate to a surface of the transparent protective film (45c). However, Umeda does not expressly disclose wherein

angles α and β satisfy a relationship represented by the following expression (1):2 α +40°< β <2 α +50° (1) where, α represents an angle formed between a slow axis of the polarizer and a slow axis of the first birefringent layer, and β represents an angle formed between the absorption axis of the polarizer and a slow axis of the second birefringent layer.

- 4. Regarding claim 1, Okamoto discloses an elliptically polarizing plate (see figure 2, for instance) wherein angles α and β satisfy a relationship represented by the following expression (see column 15, lines 14-20(see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein θ_1 = 75° and θ_2 = 15°):2 α +40°< β <2 α +50° (1) where, α represents an angle formed between a slow axis of the polarizer and a slow axis of the first birefringent layer, and β represents an angle formed between the absorption axis of the polarizer and a slow axis of the second birefringent layer.
- 5. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the angular relationship of Okamoto in the method of Umeda, Umeda in view of Okamoto discloses the motivation for doing so would have been to simplify fabrication while improving display brightness, as taught by Okamoto (column 15, lines 39-51). Claim 1 is therefore unpatentable.
- 6. Regarding claim 2, Umeda in view of Okamoto discloses the method according to claim 1 (see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein: the polarizer (43), the transparent protective film (45c), the first birefringent layer (46) formed on the substrate, and the polymer film (46a) used for forming the second birefringent layer are each a continuous film; long sides of the polarizer (43), the

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transparent protective film (45c), and the first birefringent layer (46) formed on the substrate are continuously attached together to form a laminate including the polarizer (43), the transparent protective film (45c), the first birefringent layer (46), and the substrate in the stated order; the substrate is peeled off from the laminate; and long sides of the laminate having the substrate peeled off and the polymer film used for forming the second birefringent layer are continuously attached together. Claim 2 is therefore unpatentable.

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- 7. Regarding claims 3 and 10, Umeda in view of Okamoto discloses the method according to claims 1 and 2 (see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein the liquid crystal material comprises at least one of a liquid crystal monomer and a liquid crystal polymer ([0320]). Claims 3 and 10 are therefore unpatentable.
- 8. Regarding claims 4, 11, and 12, Umeda in view of Okamoto discloses the method according to claims 1-3(see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein the first birefringent layer (46) comprises a λ /2 plate. Claims 4, 11 and 12 are therefore unpatentable.
- 9. Regarding claims 5 and 13-15, Umeda in view of Okamoto discloses the method according to claims 1-4 (see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein the second birefringent layer (46a) comprises a λ /4 plate. Claims 5 and 13-15 are therefore unpatentable.
- 10. Regarding claims 6 and 16-19, Umeda in view of Okamoto discloses the method according to claims 1 and 2-5 (see Umeda figure 14 (a), Okamoto figure 2, for

instance), wherein the substrate comprises a polyethylene terephthalate film ([0264]). Claims 6 and 16-19 are therefore unpatentable.

- 11. Regarding claim 7, Umeda in view of Okamoto discloses the method according to claim 1 (see Umeda figure 14 (a), Okamoto figure 2, for instance), wherein the polymer film comprises a stretched film. Claim 7 is therefore unpatentable.
- 12. Regarding claim 8, Umeda in view of Okamoto discloses an elliptically polarizing plate, which is produced through the method according to claim 1. Claim 8 is therefore unpatentable.
- 13. Regarding claim 9, Umeda in view of Okamoto discloses an image display apparatus, which comprises the elliptically polarizing plate according to claim 8. Claim 9 is therefore unpatentable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 12/5/2009

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871